

3/29/2018

Print



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	T	
PO039368	ACI001-VC	3	1	Net 30	M6061T6S.080	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				128	3/29/2018	144		S056938	Stock	3/29/2018	\$ 7.14 / sf	0		\$	
		6			M2024T3S.040	2024-T3 .040 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209				144		144		S056939	Stock	3/29/2018	\$ 5.83 / sf	0			
		7			M2024T3S.080	2024-T3 .080 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf				48		48		S056940	Stock	3/29/2018	\$ 11.81 / sf	0			
Total:										320		336									\$1,

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039368**

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO039368

**PO Date:** 3/20/18

**Due Date:** 3/23/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
MAR 21 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** QUOTE NO. SOU0092664

## **Items**

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6S.040		6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	32 sf	0 sf	32 sf	\$4.4757812/sf	\$143.22
							32		MAR 26 2018	
2	M6061T6S.063		6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	192 sf	0 sf	192 sf	\$5.6397916/sf	\$1,082.84
							192		MAR 26 2018	
3	M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	128 sf	0 sf	128 sf	\$7.1421093/sf	\$914.19
							144		MAR 29 2018	
4	M6061T6S2.250X13.500		6061-T6 Sheet 2.250" Thick x 13.500" Wide : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209	Firmed	3/23/18	6 ft	0 ft	6 ft	\$209.70666/ft	\$1,258.24
							6		MAR 26 2018	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5	M6061T6S2.250X2.750		6061T6 Bar 2.250 X 2.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft PLATE ACCEPTABLE	Firmed	3/23/18	6 ft	0 ft	6 ft	\$111.52/ft	\$669.12
						12			MAR 26 2018	DAS 11 9-89
6	M2024T3S.040		2024-T3 .040 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209	Firmed	3/23/18	144 sf	0 sf	144 sf	\$5.8270833/sf	\$839.10
						144			MAR 29 2018	DAS 11 9-89
7	M2024T3S.080		2024-T3 .080 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	3/23/18	48 sf	0 sf	48 sf	\$11.809375/sf	\$566.85
						48			MAR 29 2018	DAS 11 9-89
8	M304S20GA		304/316 .040 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	3/23/18	128 sf	0 sf	128 sf	\$3.9089375/sf	\$500.34
						128			MAR 26 2018	DAS 11 9-89
9	M304S16GA		304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	3/23/18	96 sf	0 sf	96 sf	\$6.5086458/sf	\$624.83
						96			MAR 26 2018	DAS 11 9-89
10	M304S18GA		304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	3/23/18	96 sf	0 sf	96 sf	\$5.375/sf	\$516.00
						96			MAR 26 2018	DAS 11 9-89
11	M4130NR5.000		4130 Steel Round Bar 5.000" : MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft	Firmed	3/28/18	3 ft	0 ft	3 ft	\$253.3333/ft	\$760.00
									Grand Total: \$7,874.74	

## Order Notes



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## Order Notes

## Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 3/20/18 2:52 PM dart.lavoie.chantal



**DELIVERY - USINE**

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Copy** CO00079774

**Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,  
Att : CHANTAL LAVOIE Tél.: 613-632-5200  
Delivery Route 5

**Instruction** F-M

**Page**

2

Customer N° CL10001056  
Date 2018/03/21  
Delivery date **2018/03/29**  
Your order N° 039368  
Processed by Josianne Bourdon  
Salesman  
Carrier OUELLETTE VALLEYFIELD  
Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 ROUND 4130 5 NS R4130-5 1 X 36" LINE 11 AC14567-AA-29/03  <u>Back-Order</u>	200.28	3.00	PL_\$CLB			1X					

**Total Weight (Lbs) : 500.42**

**NIR : R-109516-6**

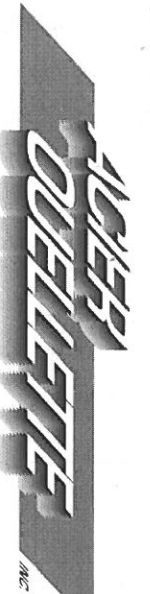
**Conditions :**  
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : <i>HC</i>	Verified By : <i>[Signature]</i>	Delivered By : _____	Time _____	Y _____	M _____	D _____
-------------------------	----------------------------------	----------------------	------------	---------	---------	---------

Customer's Signature \_\_\_\_\_

Date \_\_\_\_\_

**Total (\$CAD)**



# DELIVERY - CLIENT

Customer N°

Customer N°

CLI0001056

Date

2018/03/21

Delivery date

2018/03/29

Your order N°

039368

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

## Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195 3 X 4' X 12' HEAT: 462526 LINE 3 AC14562-SA-26/03	164.30	144.00	PI2_\$CLB				② 144				DAS 11 9-89 MAR 29 2018
2 ALU SHEET .040 (18G) 2024-T3 4B (4 X 12) FEAL-0404122024B 3118 3 X 4' X 12' HEAT: 24310888 LINE 6 AC14562-SA-26/03	81.07	144.00	PI2_\$CLB				③ 144				DAS 11 9-89 MAR 29 2018
3 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 1 X 4' X 12' HEAT: 22397389 LINE 7 AC14562-SA-26/03	54.77	48.00	PI2_\$CLB				① 48				DAS 11 9-89 MAR 29 2018

NIR : R-109516-6

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Next Page...



# DELIVERY - CLIENT

ACIER OUELLETTE INC.

Copy CO00079774

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

2

Credit Terme

Net 30 Days

Salesman

Carrier

OUELLETTE VALLEYFIELD

Processed by

Josianne Bourdon

Delivery date

2018/03/29

Your order N°

039368

Customer N°

CL10001056

Date

2018/03/21

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
4 ROUND 4130 5 NS R4130-5  1 X 36" LINE 11 AC14567-AA-29/03  <u>Back-Order</u>	200.28	3.00	PL_\$CLB			1X				

Total Weight (Lbs) : 500.42

NIR : R-109516-6

## Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking fee.

Prepared

Verified By :

Delivered By : Time

Y M D

Total (\$CAD)

Customer's Signature

Date

# Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, TA

Ship Date	B/L No.	Invoice No.	Arconic No.	Item
3427326	0			
2018-02-15	1165753	00000	1000979722-1	DPE-79722-1
P.O. No./Govt Contract No.		Customer		Arconic Item

**Terrence Thom**  
**Quality Assurance Manager**

Page 1 of 2

Item Description  
0.08" IN TK (+0.0000 -.0045) X 48.0" IN W (+.125 -  
-.125) X 144.0 IN LN (+.15625 -.15625) CAT D 126901 (N) A/T 6061-  
T6 PLAT SHEET FOR DISTRIBUTORS TOLERANCE  
GUARANTEED. AMS4074 REV N, ANS135.2 REV 2017 EXC\_MRK ASME-SB-  
209 REV 15 EXC\_MRK ASTM B209 REV 14  
((MARKED)) KRAFT PAPER INTERLEAVED  
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/-  
25 % COR D126901 REV 47 CUST REQ 18-02-  
10 \*\*\* W/E 18-02-17 \*\*\*

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector Clock Numbers
1	432702	46526	2429	47	PC	27107 47431 46940
2	433107	46526	2276	44	PC	27107 47431 46940
			4705	91		

Notes for CQR: D126901.47  
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250\_11 ORIGINAL REVISO N DATED 1997-08-01.

CQR: D126901.47 -Specification Limits

Temp	Dir	UTS	TYS	ELAD
T <sub>6</sub>	Long Transv.	Max		
		KSI	KSI	PCT

Chemical Composition  
Alloy 6061

	SI	FE	CU	MN	MG	CR	ZN	TI	Other Each	Other Total	Aluminum	REMAIN
	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15		
	.40		0.15		0.8	0.04						

REMAIN

# CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Beltsford, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet. This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

S. Narasimhan  
Manufacturing Director - Davenport & Satellite

Terence Thom  
Quality Assurance Manager

3427326  
Ship Date 0 B.L. No. Invoice No. Arconic No. Item  
2018-02-15 11655753 0000 1000979722-1  
P.O. No./Govt Contract No. Customer Arconic Item  
C75324 Ln#: 1 DPE-79722-1

Page 2 of 2

COR: D126901.47 - Specification Limits (cont.)  
Lot: 462526 - Mechanical, Physical, Metallurgy, Quantometer Results

Temp	Dir	Test	UTS	TS	YS	ELAD	PCT
T6	Long Transv.	11	KSI	KSI	KSI	12	12
			49.9	44	44.1	12.1	12.1
			49.9	44	44.1	12	12
			49.9	44	44	12.1	12.1
			49.9	44	44	12	12
			49.9	44	44	11.7	12.1
			49.8	43.9	44	12.1	12.1
			49.9	44	44	12.1	12.1
			49.8	44	44	12.4	12.4
			49.9	44	44	12.2	12.2
			49.7	43.8		12.2	

Cast Number Chemical - OBS SI FE CU MN MG CR ZN TI Other Each Other Total  
17S0541031 Actuals 0.66 0.5 0.26 0.01 1.0 0.17 0.01 0.05 < 0.05 < 0.15

This material was melted in the United States or a Qualifying Country [RBF DFARS 225.872.1(a)]; it was manufactured in the United States

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4482962

186

CUSTOMER PO NUMBER: C74796-1	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 104079/25	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1244537-1	SHIP DATE: 24-OCT-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet
WEIGHT SHIPPED: 3279 LB	QUANTITY: 117 PCS EST.	TRUCK BIL #: 2069706	GAUGE: 0.0400 IN (1.0180 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2160707: LOT/243108B8: 117 pieces; 124467

### Certified Specifications

✓ AMS 4037/RevQ.  
CMMP 019/RevD

✓ AMS-QQ-A-250/4/RevB  
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504  
Lot: 243108B8

Cast 527

Drop 60

Test Results  
Ingot 2

Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	65.1 : 65.3 (449 : 450)	44.3 : 44.7 (305 : 308)	17.3 : 18.8

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.20	4.5	0.57	1.3	0.00	0.11	0.02	0.01	0.01	TOT 0.02

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder



Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4482962

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (< 1 ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

CO. 79774

DAKT

PO. 14562

**KAISER  
ALUMINUM**Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586**CERTIFIED TEST REPORT**Serial Number  
4466392

CUSTOMER PO NUMBER: C74254-5	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103950/20	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1236242-5	SHIP DATE: 12-JUN-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3
PRODUCT DESCRIPTION: Kaiser Stretched				
WEIGHT SHIPPED: 3276 LB	QUANTITY: 58 PCS EST.	TRUCK B/L #: 2067334	GAUGE: 0.0800 IN (2.0320 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)
			LENGTH: 144.000 IN (3657.6 MM)	

MHU 2116107; LOT 223973B9: 58 pieces; **0297517****Certified Specifications**✓ AMS 4037/RevQ  
CMMP 019/RevD✓ AMS-QQ-A-250/4/RevB  
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 223973B9

Cast 433

Drop 77

**Test Results**

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	68.1 : 68.2 (470 : 470)	47.3 : 47.5 (326 : 328)	18.1 : 18.3

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.10	0.19	4.7	0.58	1.4	0.01	0.09	0.02	0.01	0.01	TOT 0.05

**ALLOY LIMITS**

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4466392

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- \* All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- \* has been thermally processed in compliance with AMS 2772, where applicable.
- \* is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- \* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- \* is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- \* is free of weld repair.
- \* meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024+35.080  
DATE: MAR 29 2018

PO / BATCH NO.: 039368/5056940

MATERIAL CERT REC'D: yes  
QUANTITY RECEIVED: 48 P12  
QUANTITY INSPECTED: 48 P12  
QUANTITY REJECTED: 0

THICKNESS ORDERED: .080  
THICKNESS RECEIVED: .080  
SHEET SIZE ORDERED: 4x12  
SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Ams-QQ-A-250/4</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 22397389</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 29 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET  
SPECIFICATION: QQ-A-250/A OR AMS-QQ-A-250/4  
OR AMS 4037  
OR ASTM B209

PART NUMBER: M2024T3S | XXX | THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE: .XXX BY 4 FT BY 10 FT

**RELEASED**  
R 2009-03-23 JWP

B	REFORMAT DWG. ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	M2024T3S	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	2024-T3 SHEET SPEC	NTS
DATE	09.07.07		

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024+35.040  
 DATE: MAR 29 2018

PO / BATCH NO.: 039368/5056939

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 144P12  
 QUANTITY INSPECTED: 144P12  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040  
 THICKNESS RECEIVED: .040  
 SHEET SIZE ORDERED: 4X12  
 SHEET SIZE RECEIVED: 4X12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>AMS-QQ-A-250/4</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Heat # 29310888</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAR 29 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET  
SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4  
OR AMS-4037  
OR ASTM B209

PART NUMBER: M2024T3S | XXX | THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)  
EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE: .XXX BY 4FT BY 10FT

RELEASED  
R 2009-03-23  
MSP

B	REFORMAT DWG. ADD ASTM B209 SPEC (ZIN D8-1), PAR 09-020A	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.07		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M2024T3S			
REV. B			
SHEET 1 OF 1			
TITLE 2024-T3 SHEET SPEC			
SCALE NTS			
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T65-080  
 DATE: MAR 29 2018

PO / BATCH NO.: 039368/5056938

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 144P12  
 QUANTITY INSPECTED: 144P12  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .080  
 THICKNESS RECEIVED: .080  
 SHEET SIZE ORDERED: 4X12  
 SHEET SIZE RECEIVED: 4X12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>Astm B209</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat# 462526</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>9-8 MAR 29 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE  
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11  
OR AMS-4025 OR 4027  
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W | WWW |  
| THK | | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)  
AND "W.WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)  
EG. 0.063" THICK SHEET = M6061T6S.063  
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6S
TITLE	6061-T6 SHEET/PLATE SPEC
REV. C	SHEET 1 OF 1
SCALE	NTS
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2018 MAR 13  
EJ 18-695

APPROVED